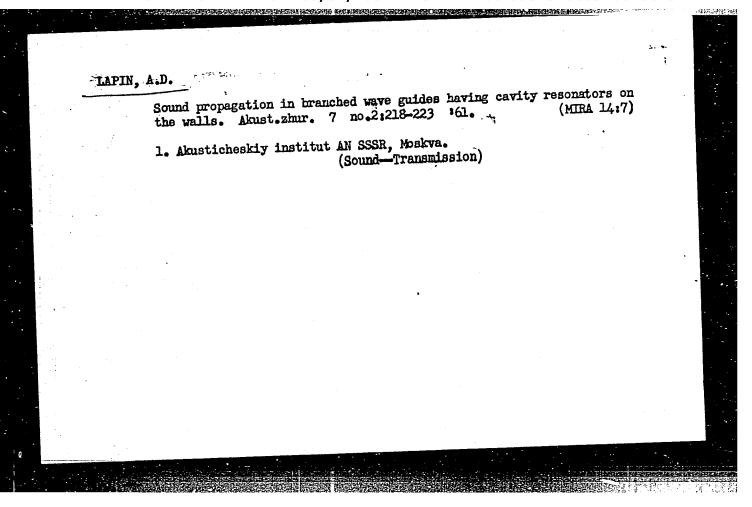
The diffraction of sound...

S/124/61/000/010/011/056 D251/D301

> D B

Card 3/3



LAPIN, A.D.

Effect of a moving medium on sound propagation in a wave guide having cavity resonators on the walls. Akust. zhur. 7 no.4:446-449 161. (MIRA 14:10)

1. Altusticheskiy institut MI SEOR, Moskva.
(Sound—Transmission)
(Meve guides)

S/046/62/008/002/005/016 B104/B138

AUTHOR:

Lapin, A. D.

TITLE:

Reflection of normal waves from the closed end of a waveguide

PERIODICAL: Akusticheskiy zhurnal, v. 8, no. 2, 1962, 189 - 193

TEXT: This is a plane problem. The waveguider is closed by a hard or soft wall at an angle of 45°, so that, for the computation, the problem can be regarded as the propagation of normal waves in two waveguides which meet at right angles. It is solved by "joining" the wave fields at the boundaries of regions with known eigenfunctions. An infinite system of algebraic equations is obtained for the amplitudes of the normal waves of the reflected field. For certain ratios between waveguide width and sound wavelength this system is solved by a reduction method. These solutions are used to study the wave field in the case of sound reflection from a serrated surface. There are 5 figures.

ASSOCIATION: Akusticheskiy institut AN SSSR Moscow (Acoustics Institute AS USSR, Moscow)

SUBMITTED:

May 26, 1961

Card 1/1

3/046/62/008/004/008/017 B108/B186

24 1200

AUTHOR:

The scattering of a plane wave from a periodically corrugated Lapin, A. D.

TITLE: surface

Akusticheskiy zhurnal, v. 8, no. 4, 1962, 442-446

PERIODICAL:

TEXT: In a previous paper (Akust. zh., 1962, 8, 2, 189-193) the reflection of a normal wave from the closed end of a waveguide was calculated. Here the results are extended to reflection from a periodically corrugated surface. When the amplitudes A_n and B_n of the normal waves reflected in a

waveguide are known, the sought amplitudes of the waves scattered from the

corrugated surface are given by

 $R_n = \frac{1}{2} (A_n + B_n)$ and $R_{-n} = \frac{1}{2} (A_n - B_n)$.

The reflection of a normal wave from an element of the corrugated surface at the end of a waveguide is calculated for a sawtooth-like surface with rectangular teeth. The effect of the corrugation of the surface element

Card 1/2

CIA-RDP86-00513R000928610013-1" **APPROVED FOR RELEASE: 08/31/2001**

The scattering of a plane wave...

5/046/62/006/004/008/017 B108/B186

(sawtooth) on the reflection of the normal waves is estimated by the method of the small perturbations. The solution for a straight smooth surface element at the end of the waveguide previously obtained is used as zeroth approximation. An infinite system of algebraic equations for the scattered amplitudes is derived. There are 4 figures.

ASSOCIATION: Akusticheskiy institut AN SSSR. Moskva (Institute of

Acoustics AS USSR, Moscow)

SUBMITTED:

December 15, 1961

Card 2/2

B/046/63/009/001/008/026 B104/B186

AUTHOR:

Lapin, A. D.

TITLE:

The scattering of a plane wave from a saw-toothed surface

PERIODICAL:

Akusticheskiy zhurnal, v. 9, no. 1, 1963, 47-49

TEXT: In a previous paper (A. D. Lapin, Akust. zh., 1962, 8, 2, 189-193) the scattering of a plane wave from a hard or soft saw-toothed surface for given incident angles was studied. In the present study this scattering problem is solved for an arbitrary incident angle under the assumption of rectangular saw-tooths. The pressure in the incident wave is given by $p_0(x,y) = \exp\left\{i(x,x) + f_0y\right\}$, where

 $\frac{1}{R_0} = \sqrt{\frac{k^2 - \frac{g^2}{0}}{k^2 - \frac{g^2}{0}}}.$ The scattered field at x<0 is sought in the form $p(x,y) = \sum_{n=-\infty}^{\infty} R_n \exp\left\{i\left(-\kappa_n x + \frac{g}{n}y\right)\right\}, \text{ where } \begin{cases} n = \frac{g}{0} + q_n, \kappa_n = \sqrt{\frac{k^2 - \frac{g^2}{0}}{n}}, \\ n = \frac{g}{0} + \frac{g}{0}, \kappa_n = \sqrt{\frac{k^2 - \frac{g^2}{0}}{n}}, \end{cases}$

 $q_n = n\pi/a$. The amplitudes R_n are found by a method of joining the fields at Card 1/4

S/046/63/009/001/008/026 B104/B186

The scattering of a plane ...

the boundaries of a rectangular region in which the eigenfunctions are known. It is shown that in the points (x,y) and (x,y+2a) the total field $p=p_0+p$ (x<0) differs by a phase factor $(\exp(i2a\int_0^x))$; the same result holds for the field $\Phi(x>0)$. Therefore the properties of p and Φ are studied in the interval -a< y< a. P and Φ are represented as a sum of symmetric and asymmetric functions $(P=P_c+P_h; \Phi=\Phi_c+\Phi_h)$:

$$\Phi_{0}(x,y) = \sum_{m=0}^{\infty} \sum_{n=-\infty}^{\infty} \frac{2i\kappa_{n}\beta_{n,m}(\delta_{n,0} - R_{n})}{a\theta_{m}\xi_{m}\sin(\xi_{m}a)} \{(-1)^{m}\cos[\xi_{m}(a-x)]\cos(q_{m}y) \pm \\
\pm\cos(q_{m}x)\cos(\xi_{m}y)\}, \qquad (3)$$

$$(-1)^{m}\theta_{m}a/2 \quad \text{прн} \quad |\xi_{n}| = q_{m} \qquad (2 \quad \text{прн} \quad m = 0)$$

$$\beta_{n,m} = \begin{cases} (-1)^m \theta_m a / 2 & \text{при } |\xi_n| = q_m \\ \frac{\xi_n \sin(\xi_n a)}{(\xi_n^3 - q_m^3)} & \text{при } |\xi_n| \neq q_m \end{cases}; \quad \theta_m = \begin{cases} 2 & \text{при } m = 0 \\ 1 & \text{при } m \neq 0 \end{cases};$$

$$\zeta_m = \sqrt{k^2 - q_m^3}$$

Card 2/4

The scattering of a plane ... $B/C_* \frac{1}{6} \frac{1}{6} \frac{1}{3} \frac{1}{9} \frac{1}{9}$

The scattering of a plane ...

s/046/63/009/001/008/026 **B1**04/**B**186

and

$$\sum_{n=-\infty}^{\infty} \left\{ \vartheta_{n,l} \left[\zeta_{l} \operatorname{ctg} \left(\zeta_{l} a \right) - i \varkappa_{n} \right] \pm \sum_{m=1}^{\infty} \frac{2q_{m} \mu_{m,l} \vartheta_{n,m}}{a \sin \left(\zeta_{m} a \right)} \right\} R_{n} = \\ = - \left\{ \vartheta_{0,l} \left[\zeta_{l} \operatorname{ctg} \left(\zeta_{l} a \right) + i \varkappa_{0} \right] \pm \sum_{m=1}^{\infty} \frac{2q_{m} \mu_{m,l} \vartheta_{0,m}}{a \sin \left(\zeta_{m} a \right)} \right\}.$$

respectively. There are 2 figures.

ASSOCIATION:

Akusticheskiy institut AN SSSR, Moskva (Institute of

Acoustics AS USSR, Moscow)

SUBMITTED:

January 19, 1962

Card 4/4

LAPIN, A.D.

Reflection of normal waves from the slanted end of a rectangular wave guide. Akust. zhur. 9 no.1:123-124 '63. (MIRA 16:5)

1. Akusticheskiy institut AN SSSR, Moskva.
(Sound waves) (Wave guides)

ACCESSION NR: APLO25733

3/0046/64/010/001/0071/0080

AUTHOR: Lapin, A. D.

TITLE: Scattering of sound on the rough surface of a solid body

STREET, THE BOTTOM STREET, THE STREET,

SOURCE: Akusticheskiy zhurnal, v. 10, no. 1, 1964, 71-80

TOPIC TAGS: sound scattering, rough surface, solid body, harmonic sound wave, Rayleigh method, scattering indicatrix, sinusoidal irregularity, small perturbation, incident wave, reflected wave, cylindrical wave, mean square dispersion

ABSTRACT: The author studies the problem of scattering of a harmonic sound wave propagated in a fluid on the rough boundary of the fluid and a solid body. The irregularities are assumed small in comparison with the wave length and rather sloping. The solution is obtained by Rayleigh's method. The author computes the indicatrices of scattering for certain types of rough surfaces and treats the problem for the case where the irregularities are of sinusoidal form. He obtains a solution for a statistically rough boundary, assuming that the deviations of the boundary S from its mean level y = 0 depend only on the x coordinate. The

Card 1/3

ACCESSION NR: AP4025733

scattered field due to the irregularities of Sis sought in the first approximation (i.e., average) by the method of small perturbations, where he uses the solution of the problem for a plane boundary as the zero-th approximation. (See A. A. Andronov and M. A. Leontovich (Zur Theorie der molekularen Lichtzerstreuung an Flüssigkeitsoberflächen. Z. Phys., 1926, 38, H. 6/7, 485-501)). The author uses the obtained results for computing scattering on the rough boundary of water-ice. These computations can be useful for estimating scattering with propagation of sound in polar seas, where the thickness of the ice is so great that reflection of sound from its upper boundary can be neglected. He investigates the case where the incident field is a cylindrical wave. An asymptotic representation of the scattered field in a fluid at large distances from the source situated near the rough boundary is found. The mean square of the scattered field in a fluid at large distances from the source is computed. As an example he finds the angular characteristic of scattering for a rough surface whose correlation function is of the , where $t_0^2 = t_0^2$ and T_0 is the characteristic scale of roughness. He assumes that K γ_0 >> 1, and he applies the results to computation of the scattered field on the rough boundary of water-ice. Orig. art. has: Card 2/3

ACCESSION NR: AP4025733

figures and 21 formulas.

ASSOCIATION: Akusticheskiy institut AN SSSR Moscow (Acoustical Institute, AN SSSR)

SUBMITTED: 16May63

DATE AQ: 10Apr64

ENCL: 00

SUB CODE: PH

NO REF SOV: 005

OTHER: OOL

Card 3/3

Car 334

31561-66 EWT(1) IJP(c) WW

ACC NR: AP6007995

SOURCE CODE: UR/0046/66/012/001/0059/0067

AUTHOR: Lapin, A. D.

ORG: Institute of Acoustics, AN SSSR, Moscow (Akusticheskiy institut AN SSSR)

TITLE: The dispersion of sound on a solid surface with rough boundaries

SOURCE: Akusticheskiy zhurnal, v. 12, no. 1, 1966, 59-67

TOPIC TAGS: acoustic wave, elastic wave, wave propagation, boundary layer

ABSTRACT: The author investigates an elastic layer on a liquid halfspace (see Fig. 1). The upper boundary of this

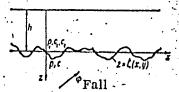


Fig. 1. Diagram of an elastic layer on a liquid halfspace.

layer is smooth and free, and the lower boundary is rough. A harmonic wave with a frequency of ω is incident on the elastic layer from the liquid. It is assumed that the irregularities ζ are small compared to the lengths of the waves propagating in the liquid and in the solid, and sufficiently flat, i.e., $\frac{1}{10}$

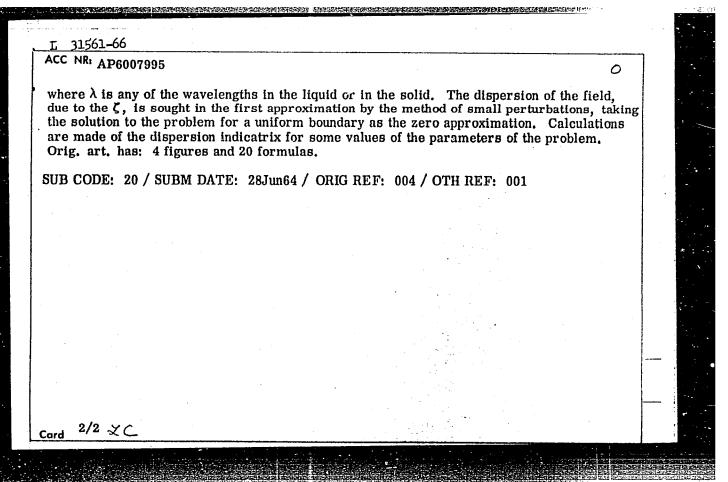
Card 1/2

 $|2\pi\zeta/\lambda|\ll 1$,

 $\left|\frac{\partial \zeta}{\partial x}\right| \ll 1$

 $\left|\frac{\partial \zeta}{\partial u}\right| \ll 1$,

UDC: 534.26



ACC NR: AP6015691 SOURCE CODE: UR/0413/66/000/009/0089/0089

INVENTOR: Lapin, A. D.

ORG: None

TITLE: A method for damping sound. Class 42, No. 181331

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 89

TOPIC TAGS: sound absorption, acoustic amping, waveguide acoustics

ABSTRACT: This Author's Certificate introduces a method for damping sound by absorption in a waveguide lined with an acoustically absorbent material. Sound attenuation is improved by using resonator branches in the waveguide for transformation of nromal low-frequency waves to normal waves of high orders (numbers) which are easily absorbed by the walls of the waveguide.

SUB CODE: 20/ SUBM DATE: 04Jan65

Card 1/1

UDC: 534,833,534 62-758,34

ACC NR: AP6029531 (A,N) SOURCE CODE: UR/0046/66/012/003/0333/0339

AUTHOR: Lapin, A. D.

ORG: Acoustics Institute, AN SSSR, Moscow (Akusticheskiy institut AN SSSR)

TITLE: Use of resonators to increase the damping of sound in a waveguide lined with sound-absorbing material

SOURCE: Akusticheskiy zhurnal, v. 12, no. 3, 1966, 333-339

TOPIC TAGS: waveguide acoustics, sound wave, wave propagation, sound absorption, acoustic damping, resonator

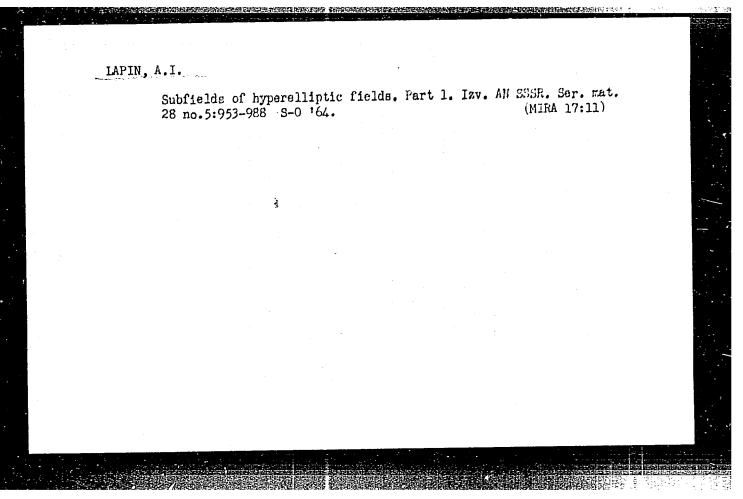
ABSTRACT: The author proposes a method for increasing the damping of sound in a wave-guide faced by sound-absorbing material, by transforming the weakly attenuated normal waves of lower wave numbers into normal waves of high numbers, which are more efficiently absorbed by the waveguide walls. This transformation of the normal waves is effected with the aid of resonators acoustically coupled to the waveguide. When sound wave, naving a frequency equal to the natural frequency of the resonators or close to increase waveguide, intense scattering of the sound by the resonators takes place. The waveguide, intense scattering of the lower numbers into normal waves of higher numbers. The type of the resonators and the method of their acoustic coupling is of no principal significance. By way of illustration of the proposed method, the author analyzes the propagation and scattering of sound in a waveguide having a resonator on its wall (Helmholz resonator), with the dimensions of the res-

Card 1/2

vpc: 534.833.534

ACC NR: AP60295	31						:
onator small com made first for a sound-absorbing through the reso a function of th	perfectly ri lining. The nator is calc	igid wavegui attenuation culated. Plo	de wall, and of the incidots illustrate	is thendent was ting the	n extended to re following attenuation	o include passage n effect as	
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AUTHOR:	Lapin, A. F	, Mokin, N.	M., Krylov, Y	B. S				
TITLE) 🔭	Method of ma	nufacturing m	ioroscreens.	Class B 210,	7d, 16. No. 15	2642		7
SOURCE:	Byul. 120br	eteniy i toya	rnykh znakov,	no. 2, 1963,				
TOPIC TA	GS: miniatu	re screen, dra	awing, die cas	sting			3 € 3 € 3 €	
ABSTRACT	Method of	manufacturing	g miniature so	creens by draw.	ng a stock pa	rt in		
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stock pa	rt is first	cold-pressed i	in a die after	oreliminary o	raving in a s	ingle		
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USSR/Mathematics - Stochastics

Card 1/1

Author

: Skorokhod, A. V.

Title

: A theorem relative to stable distributions

Periodical: Usp. mat. nauk, 9, No 2(60), 189-190

Abstract

: Briefly investigates the analytic nature of stable distribution functions for values of the characteristic index alpha less than 1. The case for alpha greater than or equal to 1 was treated by A. I. Lapin, for the results of which see B. V. Gnedenko and A. N. Kolmogorov, Predel'nyye raspredeleniya dlya summ nezavisimykh sluchaynykh velichin [Limit distributions for sums of independent random quantities], State Technical Press, 1949. Acknowledges the guidance of Professor B. V. Gnedenko, who posed the problem for the author.

Submitted

: March 6, 1954

CIA-RDP86-00513R000928610013-1" APPROVED FOR RELEASE: 08/31/2001

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· · · · · · · · · · · · · · · · · · ·	LAFIN, A. I.	242154	USSR/Mathematics - Modern Algebra "Theory of Shafarevich's Symbol," A. I. Lapin "Theory of Shafarevich's Yol 17, No 1, "Iz Ak Nauk SSSR, Ser Matemat" Vol 17, No 1, "Iz Ak Nauk Sssk, Symbol 17, No 1, "Iz Ak Nauk Sym	
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LAPIN, A. I.

USSR/Mathematics - Modern Algebra

Card 1/1

Author

: Lapin, A. I.

Title

Theory of the Shafarevich symbol

Periodical: Izv. AN SSSR, Ser. mat. 18, 145-158, Mar/Apr 1954

Abstract

: Treats the local structure of the local theory of fields of classes for Abelian extensions of prime odd index $\mathcal L$. Acknowledges helpful advice of I. R. Shafarevich. Six references: 2 USSR, dated 1950 and 1953, by Shafarevich and Lapin; others by H. Hasse, E. Witt,

H. Weyl, C. Chevalley.

Submitted

: October 13, 1952

CIA-RDP86-00513R000928610013-1" APPROVED FOR RELEASE: 08/31/2001

USSR/Mathematics - Algebraic number theory

FD-632

Card 1/1

: Pub. 47 - 4/5

Author

: Lapin, A. I. MEN CHEN CLASSIC STATES

Title

: General law of reciprocity, and a new basis for the theory of

fields of classes

Periodical

: Izv. AN SSSR, Ser. mat., 18, 335-378, Jul/Aug 1954

Abstract

: Solves the following problem: to derive the integral theory of fields of classes from the locally constructed local theory of fields of classes. The main role played here is the law of reciprocity, which was formulated and proved in the general form by I. R. Shafarevich, Mat. sb., 26(68), 1 (1950), 103-146), relying, however, upon the theory of fields of classes. The essential part of the present work is an elementary proof of the general law of reciprocity that do not use the theory of fields of classes. The author acknowledges the assistance of I.R.

Shafarevich, who posed the problem.

Institution

Submitted

: October 13, 1952

LAPIN, A.I.

SUBJECT

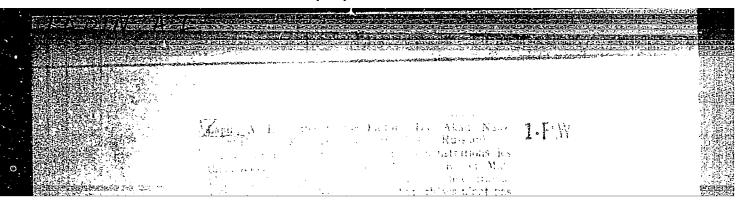
USSR/MATHEMATICS/Theory of functions CARD 1/1 PG - 768

AUTHOR LAPIN A.I.

TITLE On modular functions of second degree.
PERIODICAL Izvestija Akad. Nauk 20, 325-336 (1956)

reviewed 5/1957

In the present paper the author proves that the field of modular functions of second degree is isomorphic to the field of rational functions of three independent variables. The proof bases on Weierstrass' theory of the reversion of hyperelliptic integrals. The author essentially uses the fact that between the modular functions of p-th degree and the Abelian functions of p variables there exists the same connection as between the ordinary modular functions and the elliptic functions, where for p = 2 the general Abelian functions agree with those Abelian functions which appear at the classical reversion of the Abelian integrals.



RYKHLIK, Karel (Praga); LAPIN, A.I. [translator]

Theory of real numbers in the manuscripts of Bolzano. Ist.mat. issl. no.11:515-532 '58. (MIRA 12:1)

(Numbers, Theory of)

L 21317-65 EWT(d) IJP(c)/ESD(gs)

ACCESSION NR: AP5004473

5/0038/61/028/005/0953/0988

AUTHOR: Lapin, A. I.

TITLE: Subfields of hyperelliptic fields. I

SOURCE: AN SSSR. Izvestiya. Seriya matematicheskaya, v. 28, no. 5, 1964, 953-988

TOFIC TAOS: curve geometry

Abstract: In this paper the author studies the manifold $W_{k,p}$ of hyperelliptic fields of class p containing not less than k elliptical subfields. It is shown that each of its components has dimensionality d = p - k + 1 and the hyperelliptic field of class p, containing exactly k distinctive maximum elliptical subfields, corresponds to its common point.

The results obtained are applied to the study of rational points of an elliptic curve; specifically, it is shown that for any n > 0 over a / Field C(t) there exists an elliptic curve with a constant, absolute invariant, the rank of which is $\geq n$. Orig. art, has 71 formulas.

ASSOCIATION: none

SUBMITTED: 10May61

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SUB CODE: MA

NO HEF SOV: 000

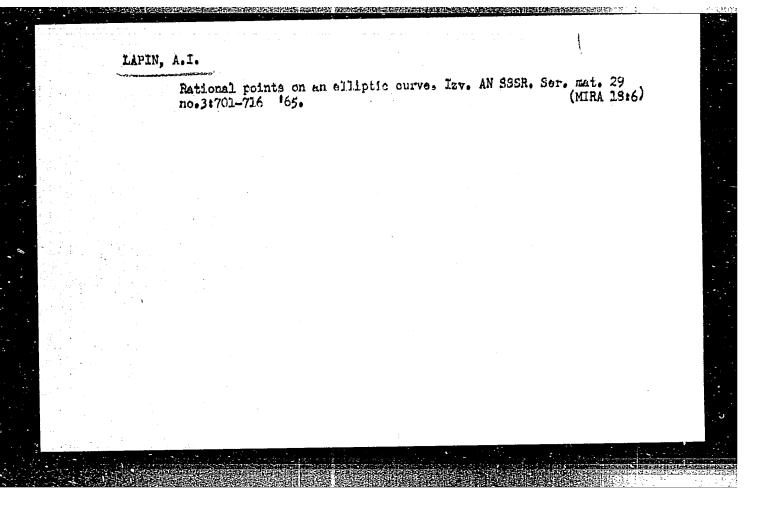
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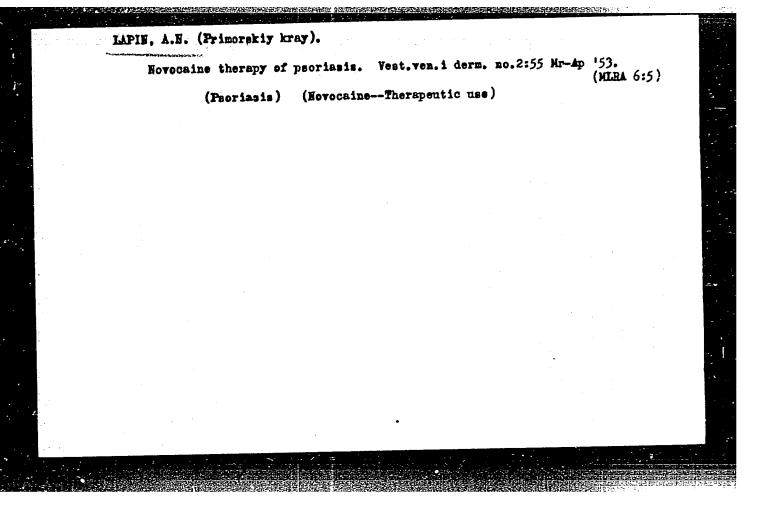
Card 1/1

APPROVED FOR RELEASE: 08/31/2001

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25639-66 EWT(d) IJP(c)			
ACC NR. AP6016079	SOURCE CODE: 1	UR/0038/65/029/003,	/0701/0716
AUTHOR: Lapin, A. I.	그는 그런 그렇게 한글 경험을 그는 기록을 많은 일본 기를 받는		21
ORG: none			/5
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TITIE: Rational points of an elliptic	al curve		
SOURCE: AN SSSR. Izvestiya. Seriya	matematicheskaya, v	. 29, no. 3, 1965,	701-716
TOPIC TAGS: polynomial, mathematic ma	trix		
ABSTRACT: In this article the and proved: For any p there ex degenerate elliptical curve of p independent integral points. are used to find the integral prelationships and matrix product the system and the proof. Orig. art.	ists over the fi the type π = 1 Analogies to the cints. A series ts is used in th	eld k = C(x) a which has at le e degenerate ca of polynomial e description o	non- ast se
SUB CODE: 12 / SUEM DATE: 18Jan62	/ ORIG REF: 001		
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- 1. LAPIN, A. P.
- 2. USSR (600)
- 7. Preparation of Patterns for Worm-Grove Cutting on a Goordinate Boring Machine, Machine Tools and the Bit No. 10, Oct 52

9. Compilation of Information of the USSR Machine and Machine Tools Industry Contained in Soviet Publications.

LAPIN, A.P.

USSR/ Engineering - Mechanics

Card 1/1 Pub. 128 - 5/35

Authors , Lapin, A. P., Cand. Tech. Sc., Docent

Title Rack-and-pinion jack

Porlodical : Vest. mash. 35/3 12 - 13, Mar 1955

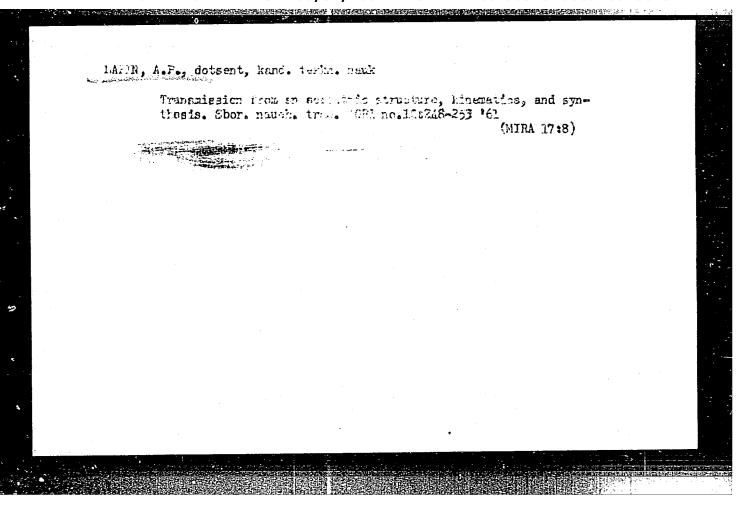
Abstract : A description is presented of a rack-and-pinion jack manufactured at

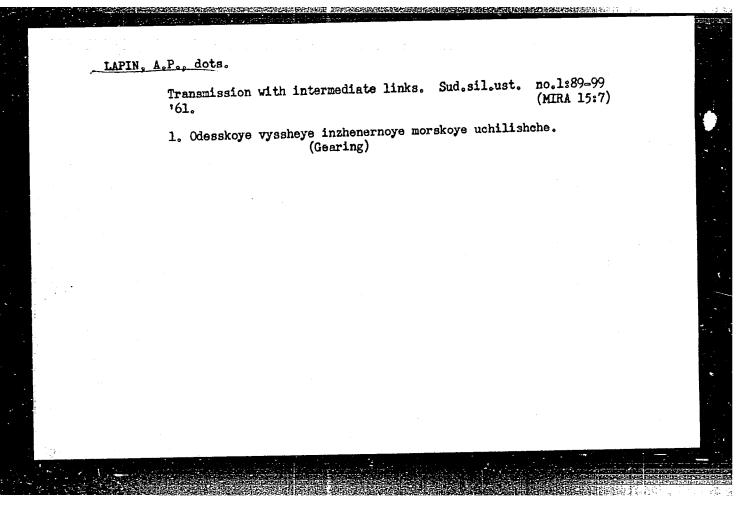
the "Kommunist" factory in Krivoi Rog. The jack lifts 5500 kg to a height of 270 mm and weighs 31 kg. Two USSR references (1948-1949).

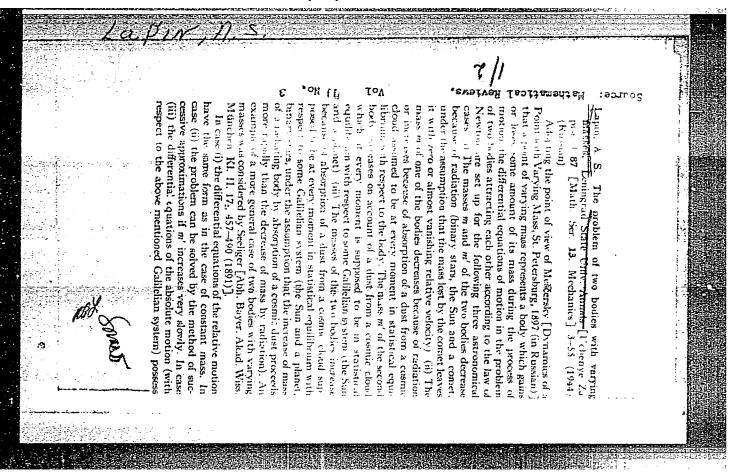
Drawings.

Institution:

Submitted







LAPIN, A. V.

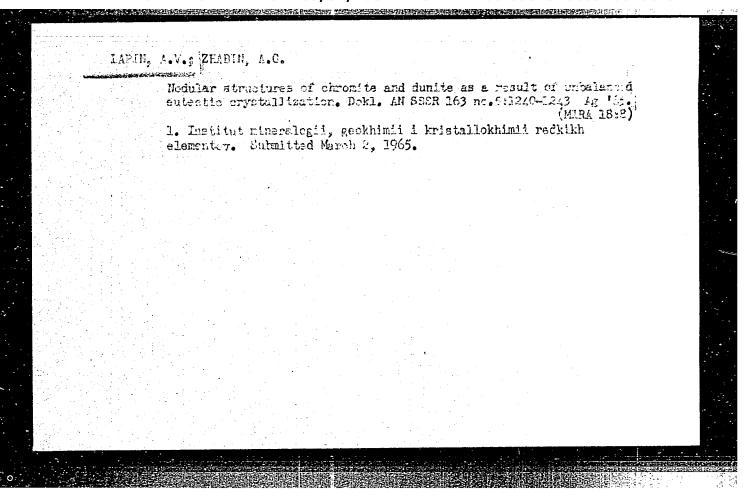
Process of the melilitization of ultrabasic-alkali rocks in the Kovdar massif. Trudy IMGRE no.9:207-223 '62. (MIRA 16:1)

(Kovdar region-Melilite)

LAPIN, A.V.

Nephelinization of pyroxenite and vein ijolites in the Kovdor Massif of ultrabasic alkali rocks. Izv. AN SSSR.Ser.geol. 28 no.5: 9-22 My '63. (MIRA 17:4)

l. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov, Moskva.



LAPIN, A.Y.

112-2-3506

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957,

Nr 2, p.145 (USSR)

AUTHOR:

Lapin, A.V.

TITLE:

Research on Split-Pole Exciters for Diesel-Locomotive

Master Generators (Issledovaniye vozbuditeley s rasshcheplennymi polyusami dlya glavnykh generatorov

teplovozov)

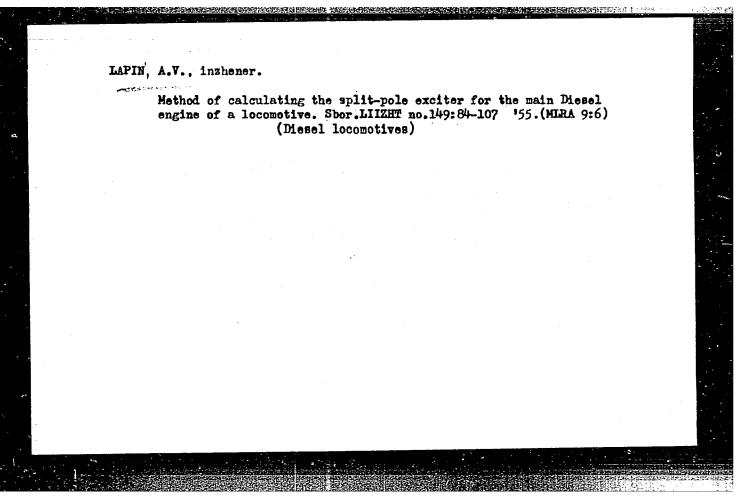
PERIODICAL: In sbornik: Materialy nauch-tekhn. soveshchaniya po tyagovomu elektrooborudovaniyu. Noyabr', 1953, Riga,

1955, pp.96~101

ABSTRACT:

Exciters are of 2 types, differing as to design of the magnetic circuit: 1) those with longitudinally split poles and 2) those with radially split poles. Problems related to their design and to the choice of optimum parameters have not been sufficiently studied. A graphicanalysis method is proposed for calculating the static characteristics of the exciter, selecting exciter winding parameters and the dimensions of the saturated pole. This

Card 1/2



LAPIN, A-V.

PHASE I BOOK EXPLOITATION SOV/5518

- Gakkel', Yekaterina Yakovlevna, Doctor of Technical Sciences, Vladimir Arsen'yevich Kozhevnikov, Engineer, Boris Georgiyevich Kuznetsov, Engineer, Andrey Vladimirovich Lapin, Candidate of Technical Sciences, Mikhail Andreyevich Nikulin, Candidate of Technical Sciences, and Grigoriy Semenovich Ezrin, Engineer.
- Elektricheskiye mashiny i elektrooborudovaniye teplovozov (Electric Machines and the Electrical Equipment of Diesel-Electric Locomotives) Moscow, Transzheldorizdat, 1960. 218 p. 10,000 copies printed.
- Ed. (Title page): Ye. Ya. Gakkel'; Ed.: N. M. Khutoryanskiy, Candidate of Technical Sciences; Tech. Ed.: Ye. N. Bobrova.
- PURPOSE: This textbook was approved in 1958 by GUUZ (Glavnoye upravleniye uchebnymi zavedeniyami Main Administration of Schools) of the Ministry of Railroads, for use by students in institutes of railroad transportation.
- COVERAGE: The book examines the purpose, arrangement, and operation of the elements of electrical transmission in Diesel-electric (D-E) Card 1/6

Electric Machines (Cont.)

SOV/5518

locomotives, and in auxiliary machinery and apparatus. Information on the structure of electrical machines and apparatus and examples of their design are given. The circuits of modern Soviet D-E locomotives including the new TE10 and TE50 locomotives, are described. The circuit of the TE-3 lot-produced D-E locomotive is examined in detailed. Primary materials included in the book come from the texts of courses given by teachers of the Leningradskiy institut inzhenerov zheleznodorozhnogo transporta (Leningrad Institute of Railroad Transportation Engineers), and from the Khar'kovskiy zavod"Elektrotyazhmash "(Khar'kov Heavy Electrical Machinery Plant). Chs. I and VII were written by Ye. Ya. Gakkel; Ch.II by M. A. Nikulin and Ye. Ya. Gakkel'; Ch.III by A. V. Lapin; Ch.IV by G. S. Ezrin (sec. 7 by V. V. Strekopytov, Engineer); Ch.V by B. G. Kuznetsov (secs. 9 and 10 by Ye. Ya. Gakkel'); and Ch.VI by V. A. Kozhevnikov. The authors thank A. Ye. Alekseyev, Corresponding Member, AS USSR, K. I. Rudaya, Candidate of Technical Sciences, and A. D. Stepanov, Doctor of Technical Sciences, for their advice, and Ye. F. Kholmovskaya and I. F. Pushkarev, Engineers, and A. N. Korotkova, Laboratory Assistant, who helped with the manuscript. There are 29 references, all Soviet. Card-2/8

REYNGOL'DT, Yuriy Anatol'yevich; ALEKSEYEV, A.Ye., retsenzent;

LAFIN. A.V., kand. tekhn. nauk, dots., retsenzent;

KUZ'MESKOV, O.P., inzh., retsenzent; SHORIN, V.P., red.;

VOLCHOK, K.M., tekhn. red.

[Electrical equipment of industrial enterprises for inlandwater transportation] Elektricheskoe oborudovante promyshlenmykh predpriiatii rechnogo transporta. Leningrad, Izd-vo

"Rechnoi transport," 1961. 356 p. (MIRA 15:3)

1. Chlen-korrespondent Akademii nauk SSER (for Alekseyev).

(Hydranlic structures—Electric equipment)

(Harbors—Electric equipment)

(Dooks—Electric equipment)

LAPIN, A.V.; KUROVA, A.V., red.; KLEYMAN, L.G., tekhn.red.

[Fundamentals of electric drives; textbook for the forth and fifth year students specializing in the "Electrification of railroad transportation," "Thermal power systems for electric power stations," "Cars and car operation, maintenance and repair," "Construction and road machinery and equipment"] Osnovy elektroprivoda; uchebnoe posobie dlia studentov IV i V kursov spetsial nostei: "Elektrifikatsiia zheleznodorozhnogo transporta," "Teploenergeticheskie ustanovki elektrostantsii," "Vagony i vagonnoe khoziaistvo," "Stroitel nye i dorozhnye mashiny i oborudovanie." Moskva, VZIIT, 1963. 99 p. (MIRA 17:3)

BORODIN, I.S.; LAPIN, A.V.

Perovskite clivinites and carbonatites as possible types of complex tantatalum-bearing and niobium ores. Sov.gecl. 8 no.11:132-136 N *65. (MIRA 19:1)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov Gosudarstvennogo geologicheskogo komiteta.

sov/180-59-3-35/43

AUTHORS: Kazakov, Ye.N., Lapin, A.Ya. and Tyazhelova, A.A. (Moscow)

TITLE: Surface-Active Substances from Neutral Oils Obtained

from Brown Coal Tar

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1959, Nr 3, pp 164-170(USSR)

ABSTRACT: The results of an investigation of tar obtained on thermal treatment of the Aleksandriysk brown coal in a pilot plant of the Institute of Thermal Techniques

of the Academy of Sciences of the UkrSSR, at a

temperature of about 600°C are reported. A neutral oil separated from the tar was studied by chemical and physico-chemical analytical methods. For this purpose it was preliminarily fractionated into 3 fractions boiling within ranges: 200 - 230°; 230-270° and

boiling within ranges: 200 - 230°; 230-270° and 270-310°C. Characteristics of the separated fractions are given in table 1. The largest fraction, boiling at 230-270°C, was then separated into groups of compounds using chromatography on silicagel (Table 2). The following group composition of the above fraction was following group composition of the above fraction was

established: paraffin-naphthenic hydrocarbons - 6.6%; unsaturated - 8.8%; aromatic and sulphurous - 67.8%;

Card 1/3

sov/180-59-3-35/43

Surface-Active Substances from Neutral Oils Obtained from Brown Coal Tar

neutral oxygen containing compounds 14.10%; losses - 3.3%. On the basis of aromatic hydrocarbons and olefines surface active substances of the type alkylarylsulphonates were synthesised and thoroughly investigated. On the basis of their properties (surface tension, floculation of calcite, foaming and washing properties) the alkylarylsulphonates obtained can be recommended as detergents for the production of synthetic washing media in quality similar to those obtained from petroleum distillates. The best properties are possessed by alkylarylsulphonates produced from the neutral oil fraction boiling at 230-270°C. During the process of sulphonation of aromatic compounds with short side chains they are, apparently, simultaneously alkylated by the olefines present with the formation of long side chains which leads to the formation of alkylarylsulphonates with adequate washing properties.

Card 2/3

sov/180-59-3-35/43

Surface-Active Substances from Neutral Oils Obtained from Brown Coal Tar

There are 7 figures, 4 tables and 4 references, 3 of which are Soviet and 1 German.

SUBMITTED: July 22, 1958

Card 3/3

USSR/Medicine - Pathology

LAPIN, B.A.

FD-3381

Card 1/1

Pub. 17 - 5/22

Author

: Lapin, B. A.

Title

: Pathogenesis of myocardinal infarction

Periodical

: Byul. eksp. biol. i med. 8, 19-21, Aug 1955

Abstract

: Author experimented with monkeys, dogs and cats by tying off the coronary arteries either with or without preliminary anesthetization of the vessel walls and the results lead him to believe that anesthetization of blood vessels walls leads to the formation of occlusions and that functional vasomotor disturbance of the coronary arteries is of leading importance in the formation of myocardinal infarctions. 5 references, 4 USSR, 3 since 1940. No graphs.

Institution

: Sukhumi Medico-Biological Station (Dir. Cand Med Sci I. A. Utkin)

Submitted

: 18 Dec 1954

LAPIN, B. A.

"Characteristics of Cardiac Blood Circulation in Angina Pectoris. The Mechanism of Infarct Development in the Myocardium (Roentgenovasographic and Histotopographic Study)." Cand Med Sci, Acad Med Sci USSR, Sukhumi, 1953. (RZhBiol, No 7, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556 24 Jun 55

LAPIN, B. A. and GVAZAVA, I. S.

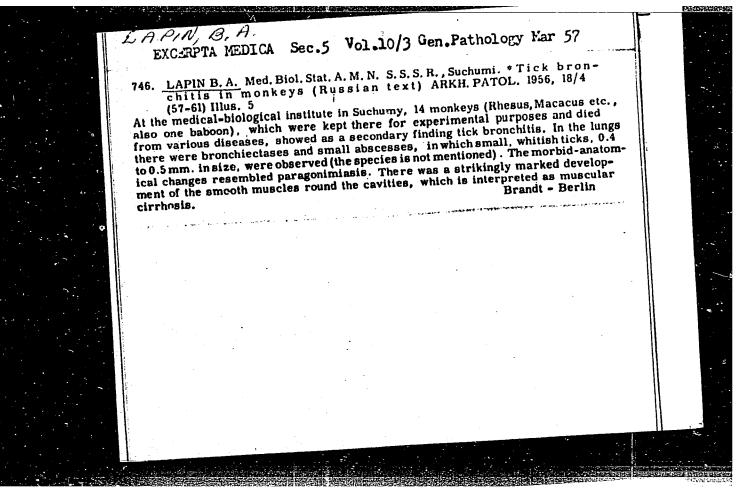
"Analysis of the Death of the Monkey Ufa" a report prepared at Sukhumi Medico-Biological Station, AMS USSR, 1954.

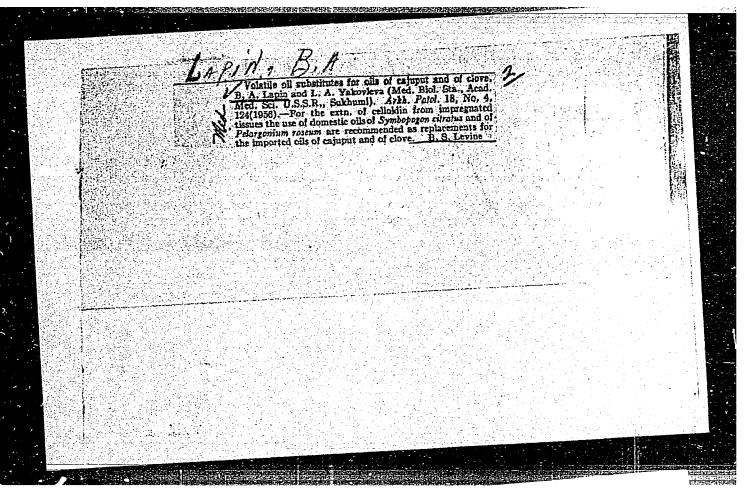
So: Review of Eastern Medical Sciences, Munich, No. 2, 1956.

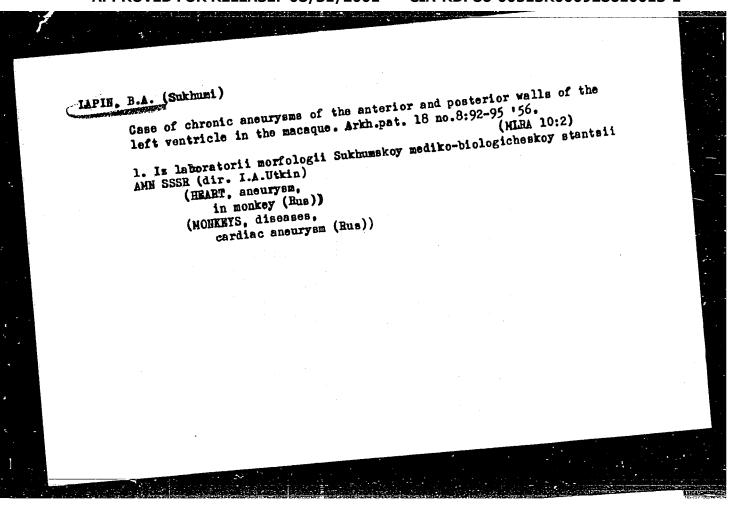
LAPIN, B. A.

"Mechanism of Appearance of Myocardial Infarct during Ligature of the Coronary Artery" a report prepared at Sukhumi Medico-Biological Station, AMS USSR, 1954.

So: Review of Eastern Medical Sciences, Munich, No. 2, 1956.







IAPIN, B.A.; YAKOVLEVA, I.A.; PEKERMAN, S.M.

Reperimental paratyphoid B in monkeys. Biul. eksp. biol. i med. 41 no. (MLBA 9:5)

1:33-38 Ja 156.

1. Iz Sukhumskoy mediko-biologicheskoy stantsii (dir.-kandidat

1. Iz Sukhumskoy mediko-biologicheskoy stantsii (dir.-Kandidat biologicheskikh nauk I.A. Utkin) AMN SSSR, Predstavleno deystvitel nym chlenom AMN SSSR I.V. Davydovskim.

(PARATYPHOID FEVER, exper.

B type in monkeys)

USSN/Muran and initial Physiology. The Effects of Physical

Factors.

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93737.

Author : Yakovleva, L..., Lapin, B..., Pikerman, S.M., Novikova,

M.I., Avetisova, S....

Inst

: Characteristics of Paratyphoid Bresleu in Monkeys

Having Radiation Sichness. Title

Orig Pub: Med. radiologiya, 1957, 2, No 4, 58-65.

Abstract: Young Macacus monleys were infected with a twenty-four hour culture of Dectering typhi Breslan (Towing on solid agar, and they were then subjected to radiation of 250 -400 r. Progressive Leukopenia and increased mertality were observed. Preliminary specific immunization fa-

vored a lowered mortality rate. Development of an anti-

: 1/2 Card

151

CIA-RDP86-00513R000928610013-1" **APPROVED FOR RELEASE: 08/31/2001**

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LAPIN

USSR/Human and Animal Physiology. The Effects of Physical Efforts.

Abs Jour: Ref Zhur-Diol., No 20, 1958, 93739.

Author : Yakovleva, L.A., Lepin, B.A., Pekerren, S.M., Novikova,

M.I., Avetisova, S....

: The Problem of the Influence of General Roentgen Exposure Inst

on the Course of Paratyphoid D in Monkeys. Title

Orio Pub: Tr. Vses. konferentsii po med. radio. Eksperin. med. radiol.

M., Medgiz, 1957, 185-187.

Abstract: Young monkeys (Macacus Rhesus and Macacus Chinese) were injected intraperitoneally with 30 - 50 milliard bac-

terial organisms of a strain of paratyphi D, and then they were exposed to a dose of 16.3 r/min. In animals,

non-immunized to paratyphoid and exposed to a dose of

: 1/2 Card

CIA-RDP86-00513R000928610013-1" APPROVED FOR RELEASE: 08/31/2001

USSR/Human and Animal Morphology (Normal and Pathological) - S

The Method and Technique of Investigation

Abs Jour : Ref Zhur Biol., No 6, 1959, 26060

Author : Lapin, B.A., Yakovleva, L.A.

Inst
Title : The Application of Volatile Oils in Histologic Practice

Orig Pub : Byul. eksperim. biol. i meditainy, 1957, 44, No 8, 118-

119

Abstract: Volatile oils of Cymbopogon citratus, Ocimum gratissimum, Eucaliptus citriodare, Eucaliptus viminalis, Pelar-

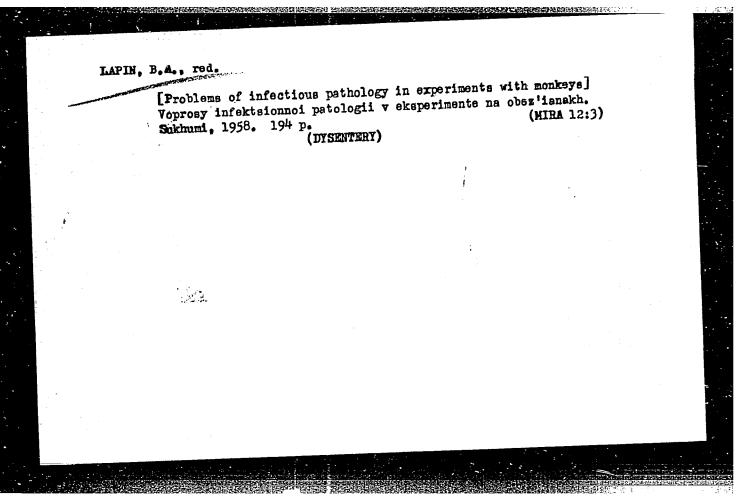
gonum roseum, Pogostemon patschuli and Malalluca alternifolia were tested. In staining of nervelcells, the best substitutes for cajeput oil are the oils of Malalluca alternifolia and Pogostemon patschuli, In application of these oils, the staining of sections does not

differ from those in control which were placed into caje-

put oil. In the oil of Malalluca alternifolia,

card 1/2

- 2 -



IAPIN, B. A., Doc of Med Sci -- (diss) "Data Toward the Comparative

Pathology of Monkeys," Sukhumi, 1959, 31 pp (Institute of Experimental

Pathology and Therapy, Acad Med Sci USSR) (KL, 1-60, 125)

LAPIN, B.A.; YAKOVLEVA, L.A. (Sukhumi)

Tumors of the gastrointestinal tract in monkeys following prolonged intake of chalesterol. Arkh.pat. 21 no.10:25-30 159. (MIRA 14:8)

1. Iz laboratorii patologicheskoy anatomii (zav. - kandidat meditsin-skikh nauk B.A.Lapin) Instituta eksperimental noy patologii i terapii AMN SSSR (dir. I.A.Utkin).

(DIGESTIVE ORGANS-CANCER)

(CHOLESTEROL_PHYSIOLOGICAL EFFECT)

CIA-RDP86-00513R000928610013-1" APPROVED FOR RELEASE: 08/31/2001

LAGUTINA, N.I., prof., red.; LAPIN, B.A., doktor med. nauk, red.; CHERKOVICH, G.M., kand. med. nauk, red.; SOLOPAYEV, B.P., kand. med. nauk, red.; DIKOVENKO, Ye.A., kand. med. nauk, red.; FUFACHEVA, A.A., mladshiy nauchnyy sotr., red.; AVAKOV, P.V., tekhm. red.

[Problems in the physiology and pathology of monkeys]Voprosy fiziologii i patologii obez'ian; sbornik rabot. Sukhumi, 1961. 339 p. (MIRA 15:11)

1. Akademiya meditsinskikh nauk SSSR, Moscow. Institut eksperimental'noi patologii i terapii, Sukhum.

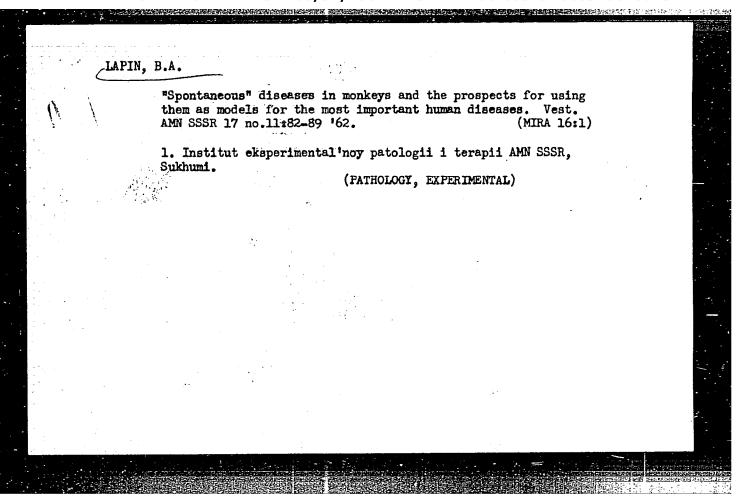
(MONKEYS--PHYSIOLOGY)

LAPIN, B.A.; STASILEVICH, Z.K.

Effect of ionizing radiations on the course of infection and the state of immunity in experimental measles in monkeys. Wed.rad. (MIRA 15:11) 7 no.7:62-67 Jl 162.

1. Iz laboratorii patologicheskoy anatomii (zav. - doktor med. nauk B.A. Lapin) Instituta eksperimental noy patologii i terapii AMN SSSR.

(MEASLES) (IMMUNITY) (RAHIATION—PHYSIOLOGICAL EFFECT)



LAPIN, Boris A., dr.

"The Use of the Baboon for the Preparation of Antiserum for Virus Identification"

Sukhumi Institute of Experimental Pathology and Therapeutics, Sukhumi, U.S.S.R. FIRST INTERNATIONAL SYMPOSIUM ON THE BARRON AND ITS USE AS AN EXPERIMENTAL ANIHAL

San Antonio, Texas 5-8 November 1963

LAPIN, Boris Arkad'yevich; LININ, Eman Petrovich; YUKHNOVSKAYA,
S.I., red.

[Monkey farm in Sukhum] Obez'ianii pitomnik v Sukhumi.
Moskva, Meditsina, 1964. 53 p. (MIRA 17:6)

ZIL'BER, L.A.; LAPIN, B.A.; ADZHIGITOV, F.I.

On the pathogenesis of the chicken Rous sarcoma virus in monkeys. Vop. virus 9 no.42498-499 Jl-Ag '64. (MIRA 18:7)

l. Institut eksperimental'noy patologii i teramii i Institut epidimiologii i mikrobiologii imeni N.F. Gamalei AMN SSSR.

L 14282-66 ENT(1)/FS(v)-3 SCTB DD/RD

ACC NR. AT6003866 SOURCE CODE: UR/2865/65/004/000/0322/0332

AUTHOR: Notarrham A R & Mach I from R A & Samura S E & 2/4

AUTHOR: Kotovskaya, A. R.; Vasil'yev, P. V.; Lapin, B. A.; Simpura, S. F.; Shakhlamov, V. A.; Artem'yeva, N. S.

36 BH

ORG: none

z, yTITIE: Effect of transverse accelerations on the organism of female monkeys

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 322-332

TOPIC TAGS: cardiovascular system, experiment animal, biologic acceleration effect, biologic respiration, space physiology, histology, biologic reproduction, space biologic experiment

ABSTRACT: Tests were conducted on 16 half-grown monkeys, 5 mandrill and 11 rhesus. Exposure to 12 G centrifugation (varying durations) took place during the following sex cycles: proliferation, secretion, desquamation, and ovulation. Acceleration took place on a centrifuge with an arm radius of 7. 25 m in a chest-back position. The behavior of the animals was monitored by TV, and cardiovascular and respiratory activity were used as criteria for the resistance of animals to acceleration. A photograph shows the position of a monkey fixed in the chair of the centrifuge. Table 1 shows the effect of acceleration on cardiovascular and respiratory activity. Card 1/3

L 14282-66 ACC NR: AT6003866

Table 1. Changes in pulse rate and respiration rate in monkeys exposed to 12 G (mean for 14 animals)

ysiological netion	Before	During	After
lse rate spiration rate	153186 2136	190230 364851	150160" 1830

The EKG's of animals exposed to acceleration revealed sinus tachycardia, shortened T-P intervals, and ventricular and atrioventricular extrasystole. Cardiac activity in general returned to normal 10-20 min after centrifugation. It was found that the endurance of female monkeys to 12 G ranged from 1 to 4.5 min. A histological analysis of the ovaries of monkeys examined 10 min, 1 hr, 24 hr, and 72 hr after termination of acceleration revealed the following deviations from normal: Proliferation phase: Weakly pronounced depolymerization of acid mucopolysaccharides in the medulla and separate cortical sections of the ovaries, as well as in the uterus. Ovulation: After one, and especially 3 days after the termination of the experiment, all ovarian tissues were found to be full of erythrocytes; The areas around the venules were plasmorrhagic and locally hemorrhagic; Acid mucopolysaccharide depolymerization was intense. Secretory phase: Two monkeys showed premature menstruation and

Card 2/3

L 14282-66 ACC NR. AT6003866 hemorrhaging in the endometrium when examined 10 min after termination. This was attributed to the deleterious effects of acceleration. Examination of an animal 24 hr later revealed individual small hemorrhages in the cortical ovarian tissue. Some erythrocytes were observed along the vascular walls. Moderate depolymerization of acid mucopolysaccharides was evident. Desquamative phase. A macro- and microscopic examination of the ovaries, Fallopian tubes, and uterus revealed the same changes as occurred during the proliferation phase. It was apparent that acceleration had its greatest deleterious effect during ovulation and its minimum effect during proliferation. The observed deviations probably reflected neuroendocrine processes associated with stress reactions to acceleration. The long-term effects of acceleration were not evident one month after acceleration, demonstrating the ability of the ovaries to regenerate after various injuries. Orig. art. has: 5 figures and 2 tables. [ATD PRESS: 4091-F] SUB CODE: 06 / SUBM DATE: none / ORIG REF: 004 / OTH REF: 006 Card 3/3

LAPIN, B.A.; ROMANOVA, S.A.

Changes in the radiosensitivity in laboratory animals under the effect of sex hormones. Med. rad. 10 no.1:49-54 Ja '65. (MIRA 18:7)

l. Laboratoriya patologicheskoy anatomii Instituta eksperimental'noy patologii i terapii AMN SSSR, Sukhumi.

LAPTH, B.A.; DZHIKIDZE, E.K.; YAKOVLEVA, L.A.; CHUMAKOVA, M.Ya.; ADZHIGITOV, F.I.

Rate of infection of monkeys in the jungles of North Vietnam by the virus SV40. Vop. virus. 10 no.2:226-228 Mr-Ap 165.

(MIRA 18:10)

1. Institut eksperimental'noy patologii i terapii AMN SSSR. Sukhumi. i Institut poliomiyelita i virusnykh entsefalitov AMN SSSR, Moskva.

CIA-RDP86-00513R000928610013-1" APPROVED FOR RELEASE: 08/31/2001

LAPIN, B.A.

Simulation of human diseases in animals; selection of experimental animals. Vest. AMN SSSR 20 no.11:3-12 '65 (MIRA 19:1)

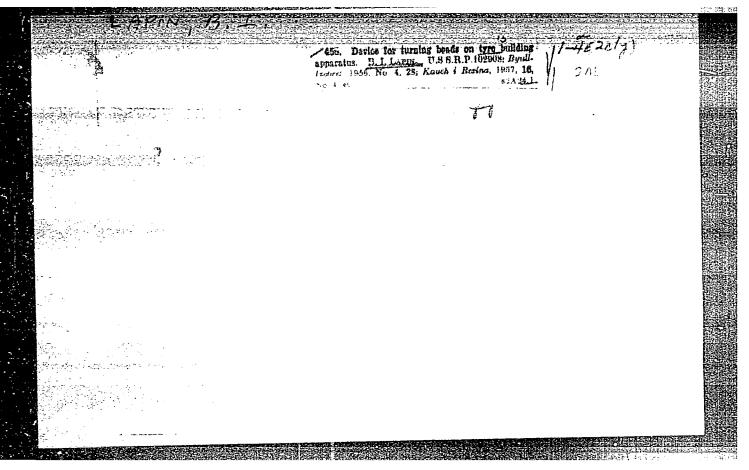
1. Institut eksperimental noy patologii i terapii AMN SSSR, Sukhumi. Submitted July 13, 1965.

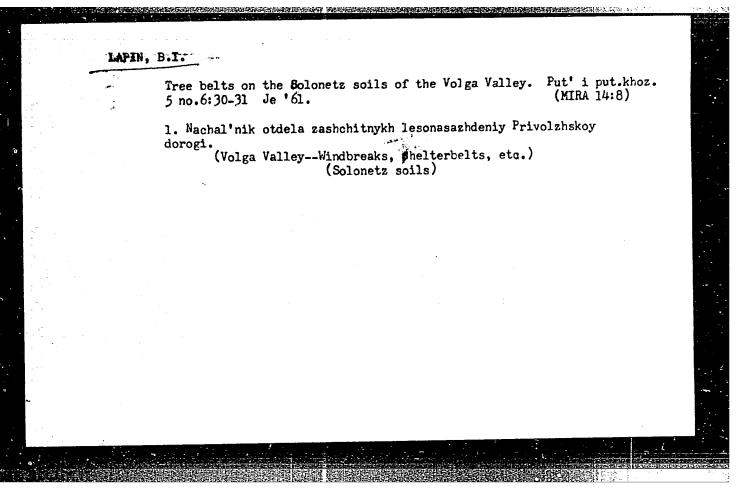
LAPIN, B.A.; ZIL'BER, L.A.; ADZHIGITOV, F.I. (Sukhumi)

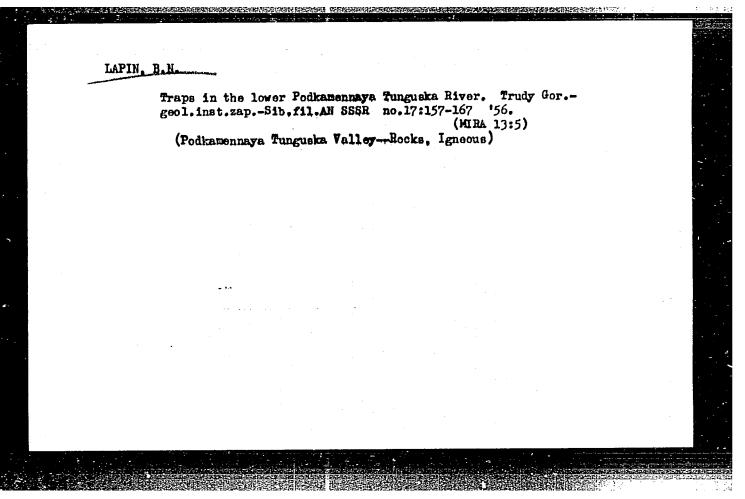
Morphological characteristics of tumors induced with the Rous virus in monkeys. Arkh. pat. 27 no.9:61-63 165.

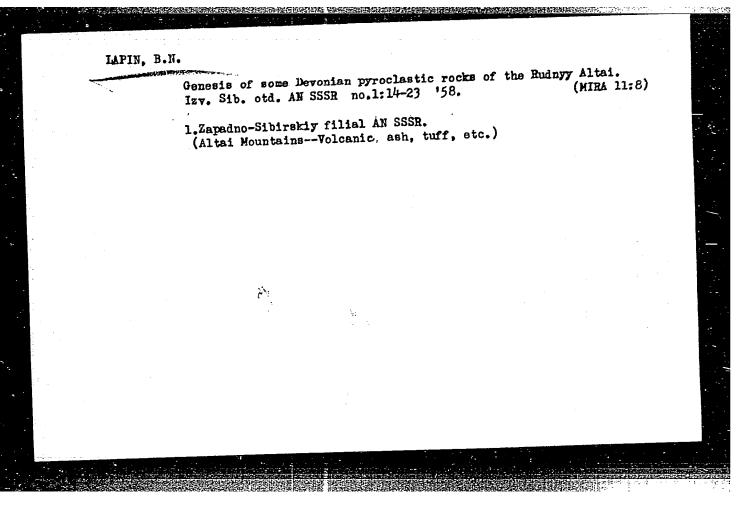
(MIRA 18:12)

1. Otdel patologii Instituta eksperimental'noy patologii i terapii (direktor - prof. B.A. Lapin) AMN SSSR. Submitted August 5, 1964.





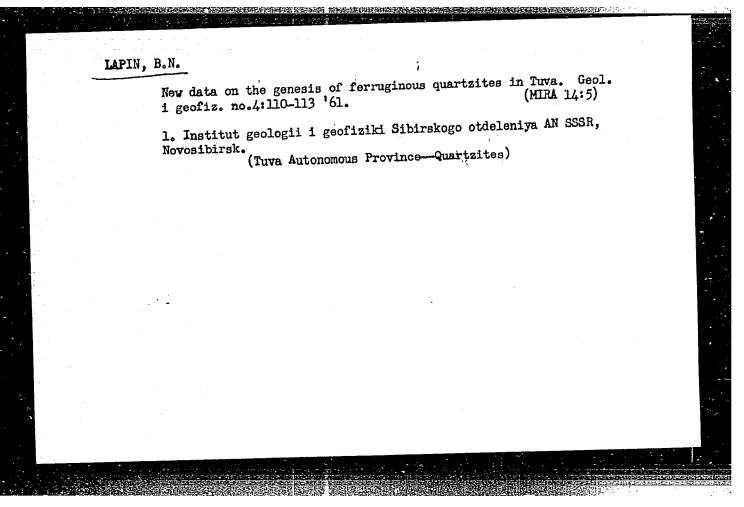


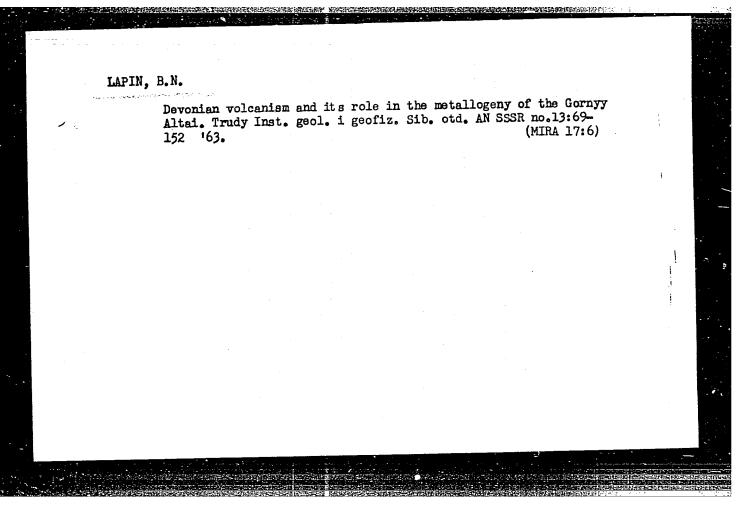


LAPIN, B.N.

Structural characteristics of certain igneous bodies of crator facies in Devonian effusive formations of the Gornyy Altai. (MIRA 13:9) Geol. i geofiz. no.4: 92-103 '60.

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR. (Altai Mountains--Rocks, Igneous)





SUKHORUKOV, F.V.; LAPIN, B.N.; SIMONOVA, V.I.

Boron in Devonian volcan c rocks of the Gornyy Altai. Geokhimia
no.12:1280-1285 D '64. (MIRA 18:8)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR,
Novosibirsk.

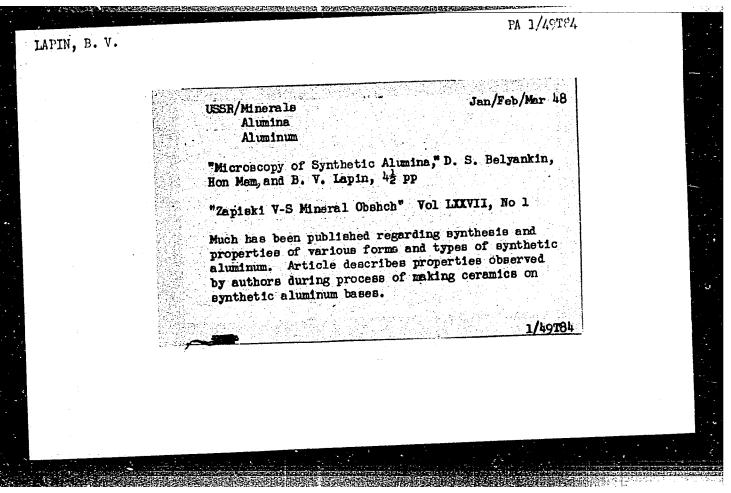
LAPIN, Boris Nikoleyevich; LUCHITSKIY, I.V., otv. red.;
MARENINA, T.Yu., red.

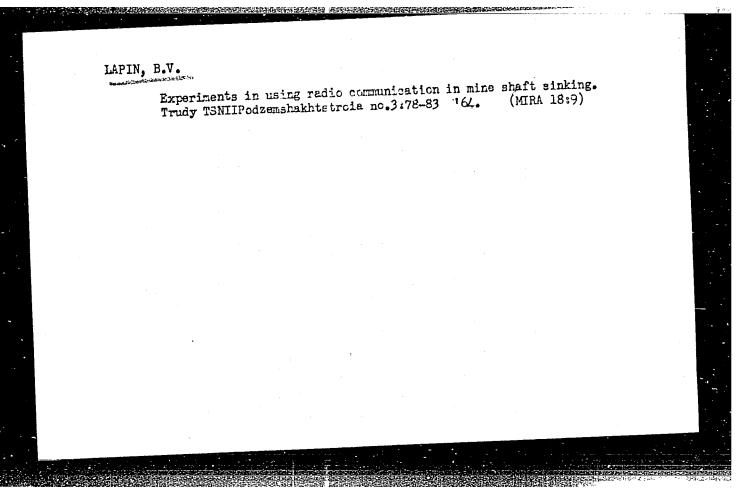
[Atlas of the structures of Devonian volcanic rocks in the Gornyy Altai] Atlas struktur devonskikh vulkanogennykh porod Gornogo Altaia. Moskva, Nauka, 1965. 125 p. (MIRA 18:11)

LAPIN, B.N.

Devonian effusive and intrusive complexes of the Gornyy Altai. Izv. Alt. Geog. ob-va SSSR no.5:30-32 '65. (MIRA 18:12)

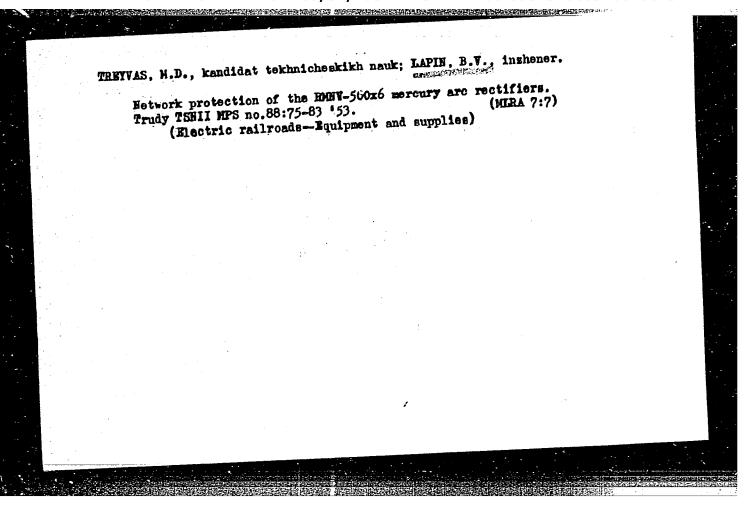
1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.





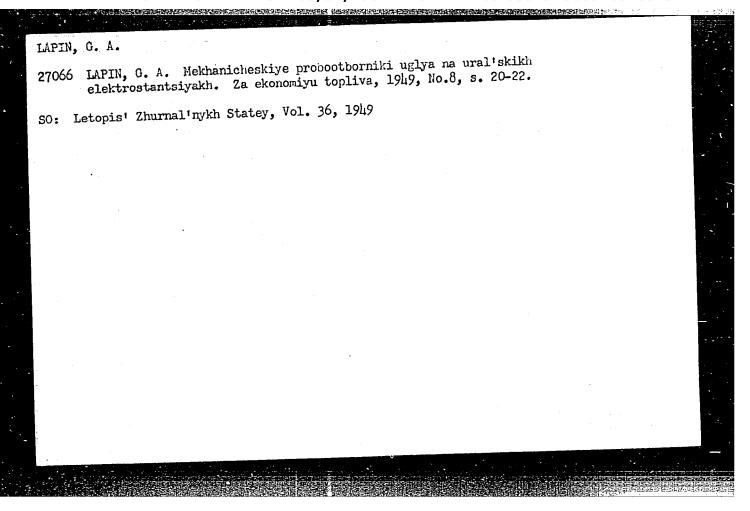
	/0003 /65 /000/010/0061/0062
ACC NRS AP6000280	SOURCE GODE: UR/0232/65/000/010/0061/0062
AUTHOR: Lapin, V.B. (En	gineer)
ORG: None	r supply to automatic interlock systems on electrified
TITLE: Reliability of powe sections of the railroad	W
SOURCE: Zheleznodorozhr	nyy transport, no. 10, 1965, 61-62
TOPIC TAGS: railway equ	infibution again ment, electric power to signal, centra-
and interlock dev	vices in a 1963 from the signals and commercy One of
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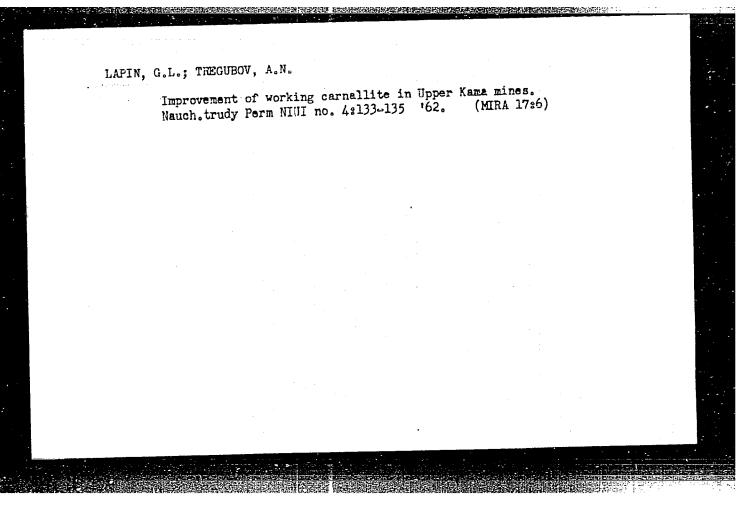
that the number of such coas-			0
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several examples and presents s	suggestions for impro	ving the situation.	author cites
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VASIL'KOV, G.V.; IVANOVA, V.I.; MOSHCHAISKIY, N.S.; LAPIN, D.;
ADISHEV, A.R.; ZHDANOV, A.; ATEMASOV, S.; MENTSHUTKIN, S.;
ANDEXTEV, I.; ARMENTIN', E

Plenum of the Stockbreeding Section of the V.I. Lenin AllUnion Academy of Agricultural Sciences. Veterinariia 37 no.6:
(MIRA 16:7)
(Veterinary medicine)
(Veterinary medicine)
(Dremiatskii, Ivan Nikolaevich, d. 1960)
(Mashkin, Ivan Ivanovich, 1879-1960)





VODOP'YANOV, V.L.; LAPIN, G.L.; SVETLICHNYY, D.M.

Selection and technical and economic bases for using self-propelled heading equipment in Upper Kama potash mines. Nauch. trudy Perm NIUI no.3:81-98 '63. (MIRA 17:3)

BARKOVSKIY, V.M., inzh.; VCDCP!YANOV, V.L., inzh.; LAPIN, G.L., inzh.

Improving the boring and blasting operations in the carnallite deposits of Solikamsk potash mines. Vzryv. delo no.57/14: 322-330 '65. (MJRA 18:11)

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Integral functions of finite order taking prescribed values in given points together with the derivatives. Sib. mat. zhur. 6 no.6:1267-1281 N-D '65.

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05259 SOV/140-59-5-15/25 16(1) Lapin, G.P. AUTHOR: Interpolation in the Class of Entire Functions of Finite Order TITLE: PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1959, Nr 5, pp 146-153 (USSR) Theorem: Let $\{\lambda_n\}$, $|\lambda_1| \le |\lambda_2| \le \cdots \le \lambda_n \le \cdots$, $\lambda_n \to \infty$ be a complex and $\{p_n\}$ a positive integral number sequence. In order that to ABSTRACT: every number system a_{nk} (n=1,2,...; k=1,2,..., p_n) for which $\frac{1}{\lim_{n\to\infty}\frac{1}{\ln|\lambda_n|}} \ln \ln \max_{n} |a_{nk}| \leqslant S, \quad k=1,2,\ldots,p_n$ (A) there exists at least one entire function $\omega(z)$ of the order and with the property $\omega^{(k-1)}(\lambda_n) = a_{nk} \quad (n=1,2,...; k=1,2,...,p_n)$ (1)it is necessary and sufficient that $\sum_{n=1}^{\infty} p_n |\lambda_n|^{-(g+E)}$ converges for all £>0, Card 1/2